

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF AIR QUALITY 601 57th Street, SE Charleston, WV 25304

Phone: (304) 926-0475 • www.dep.wv.gov/dag

APPLICATION FOR GENERAL PERMIT REGISTRATION

CONSTRUCT, MODIFY, RELOCATE OR ADMINISTRATIVELY UPDATE

A STATIONARY SOURCE OF AIR POLLUTANTS

EX CONSTRUCTION

□ MODIFICATION

□ RELOCATION

□ CLASS | ADMINISTRATIVE UPDATE

			□ CLASS II ADMINISTRATIVE UPDATE		
CHECK WHICH TYPE OF GENERAL PE	RMIT REGIST	RATIO	N YOU ARE APPLYING FOR:		
G10-D - Coal Preparation and Handling			☐ G40-C - Nonmetallic Minerals Processing		
G20-B - Hot Mix Asphalt		⊠ G50	0-B - Concrete Batch		
G30-D - Natural Gas Compressor Stations		□ G 60	O-C - Class II Emergency Generator		
G33-A - Spark Ignition Internal Combustion Engines		☐ G65	i-C – Class I Emergency Generator		
G35-A - Natural Gas Compressor Stations (Flare/Glycol Dehydn	ation Unit)	□ G70	9-A - Class II Oil and Natural Gas Production Facility		
SECTION I. G		RMATI	ON		
Name of applicant (as registered with the WV Secretary of State's	Office):		2. Federal Employer ID No. (FEIN):		
Patriot Ready Mixed Concrete, LLC			22-3931872		
Applicant's mailing address:	4. Applica	ant's phy	sical address:		
PO Box 151777	6202-	A Old	Franconia Road		
Alexandria, VA 22315	Alexa	ndria \	VA 22310		
5. If applicant is a subsidiary corporation, please provide the name of	parent corporation	on:			
6. WV BUSINESS REGISTRATION. Is the applicant a resident of the	State of West V	irainia?	☐ YES ₽ NO		
IF YES, provide a copy of the Certificate of Incorp change amendments or other Business Registra	oration/ Organi	ration I	Limited Destruction (and a control of		
IF NO, provide a copy of the Certificate of Autho amendments or other Business Certificate as At	rify / Authority	of LLC /	Registration (one page) including any name change		
SECTION II. FA	ACILITY INFOR	RMATIC	ON .		
7. Type of plant or facility (stationary source) to be constructed, modified, relocated or administratively updated (e.g., coal preparation plant, primary crusher, etc.):	8a. Standard Ir Classification		AND 8b. North American Industry		
Portable Concrete Batch Plant	Classification (S 3273	SIC) code	System (NAICS) code: 327320		
DAQ Plant ID No. (for existing facilities only):	10. List all curre with this process	ent 45CS (for exis	R13 and other General Permit numbers associated sting facilities only):		



	A: PRIMARY OPERATING SITE INFORM	MATION
11A. Facility name of primary operating site:	12A. Address of primary operating site:	
Project Independence	Mailing: 396 Development Drive	e Physical:Same
Tabler Station	Inwood, WV 25428	
13A. Does the applicant own, lease, have an op	tion to buy or otherwise have control of the	
□ IF YES, please explain: We are cons	tracted by the site manager to pro	oroposed site? Divide and operate a portable
concrete bat □ IF NO, YOU ARE NOT ELIGIBLE FOR A	ch plant PERMIT FOR THIS SOURCE	
14A. ➡ For Modifications or Administrative	Indates at an evision for the	
nearest state road;	provide	e directions to the present location of the facility from the
1		ew site location from the nearest state road. Include a
From Interstate 81, take exit 8 t	o east bound Tabler Station Rd 7	Furn Left at Development Drive
to the project entrance.	- Sept Station Itd.	turn Lett at Development Drive
15A. Nearest city or town:	100.0	
Martinsburg	16A. County: Berkeley	17A. UTM Coordinates:
-	Derkeity	Northing (KM): 4365934
19A Drieffy day 1		Easting (KM): <u>757606</u> Zone: <u>17S</u>
18A. Briefly describe the proposed new operation Portable concrete batch plant operation	or change (s) to the facility: tion	19A. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits):
		Latitude: 39.40447 Longitude: 78.00821
B: 1 ST ALTERNATE OPERATIN	G SITE INFORMATION (only available for	G20, G40 & G50 Ganaral B
11B. Name of 1 st alternate operating site:	12B. Address of 1st alternate operating site:	220, 040, & 000 General Permits)
	•	
	Mailing:	Physical:
13B. Does the applicant own, lease, have an option □ IF YES, please explain:	to buy, or otherwise have control of the prop	osed site?
S IF NO VOLLABE NOT THE		
➡ IF NO, YOU ARE NOT ELIGIBLE FOR A PER	RMIT FOR THIS SOURCE.	

nearest state road;	trative Updates at an existing facility, please p	provide directions to the present location of the facility fron
For Construction or Relocation MAP as Attachment F.	permits, please provide directions to the propos	sed new site location from the nearest state road. Include
5B. Nearest city or town:	16B. County:	17B. UTM Coordinates:
		Northing (KM):
		Easting (KM):
BB. Briefly describe the proposed new op		Zone:
the proposed flety op	eration or change (s) to the facility:	19B. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits):
		Latitude:
		Longitude:
C: 2 ND ALTERNATE OPE	ERATING SITE INFORMATION (only available	e for G20, G40, & G50 General Permits)
C. Name of 2 nd alternate operating site:	12C. Address of 2 nd alternate operatin	g site:
	Mailing:	75.
		Physical:
C. Does the applicant own, lease, have a IF YES, please explain:	n option to buy, or otherwise have control of th	e proposed site?
F NO, YOU ARE NOT ELIGIBLE FOR	R A PERMIT FOR THIS SOURCE.	
For Modifications or Administrational rearest state road;	ive Updates at an existing facility, please prov	ride directions to the present location of the facility from the
 For Modifications or Administrate nearest state road; 	ive Updates at an existing facility, please prov	ride directions to the present location of the facility from the location from the nearest state road. Include a
 For Modifications or Administrate nearest state road; 	ive Updates at an existing facility, please prov	ride directions to the present location of the facility from the location from the nearest state road. Include a
 For Modifications or Administrate nearest state road; 	ive Updates at an existing facility, please prov	ride directions to the present location of the facility from the location from the nearest state road. Include a
For Modifications or Administrate nearest state road; For Construction or Relocation per MAP as Attachment F.	ive Updates at an existing facility, please proving facility, please provide directions to the proposed	ride directions to the present location of the facility from the location from the nearest state road. Include a
For Modifications or Administrate nearest state road; For Construction or Relocation per MAP as Attachment F.	ive Updates at an existing facility, please prov	new site location from the nearest state road. Include a
 For Modifications or Administrate nearest state road; 	ive Updates at an existing facility, please proving facility, please provide directions to the proposed	ride directions to the present location of the facility from the new site location from the nearest state road. Include a
For Modifications or Administrate nearest state road; For Construction or Relocation per MAP as Attachment F.	ive Updates at an existing facility, please proving facility, please provide directions to the proposed	new site location from the nearest state road. Include a 17C. UTM Coordinates: Northing (KM):
Por Modifications or Administrate nearest state road; For Construction or Relocation per MAP as Attachment F.	ive Updates at an existing facility, please provide directions to the proposed	new site location from the nearest state road. Include a 17C. UTM Coordinates: Northing (KM): Easting (KM):
C. Sor Modifications or Administrate nearest state road; For Construction or Relocation per MAP as Attachment F.	ive Updates at an existing facility, please provide directions to the proposed	17C. UTM Coordinates: Northing (KM): Easting (KM): Zone:
C. ⇔ For Modifications or Administrate nearest state road; For Construction or Relocation per MAP as Attachment F.	ive Updates at an existing facility, please provide directions to the proposed	17C. UTM Coordinates: Northing (KM): Easting (KM): Zone: 19C. Latitude & Longitude Coordinates
For Modifications or Administrate nearest state road; For Construction or Relocation per MAP as Attachment F.	ive Updates at an existing facility, please provide directions to the proposed	17C. UTM Coordinates: Northing (KM): Easting (KM): Zone:

20. Provide the date of anticipated installation or change:	21. Date of anticipated Start-up if registration is granted:
11 / 15 / 2016	12 / 01 / 2016
☐ If this is an After-The-Fact permit application, provide the date upon which the proposed change did happen: :	
22. Provide maximum projected Operating Schedule of activity/active other than 24/7/52 may result in a restriction to the facility's operation)	ities outlined in this application if other than 8760 hours/year. (Note: anything
Hours per day 8 Days per week 5 Weeks per	year 50 Percentage of operation 85
SECTION III. ATTACHMENT	S AND SUPPORTING DOCUMENTS
23. Include a check payable to WVDEP – Division of Air Quality with the	
24. Include a Table of Contents as the first page of your application p	ackage.
	the Permitting Section (General Permits) of DAQ's website, or requested by
attachments listed below.	Please refer to the appropriate reference document for an explanation of the
☐ ATTACHMENT A: CURRENT BUSINESS CERTIFICAT	F
ATTACHMENT B: PROCESS DESCRIPTION	_
ATTACHMENT C: DESCRIPTION OF FUGITIVE EMISS	SIONS
ATTACHMENT D: PROCESS FLOW DIAGRAM	
TX ATTACHMENT E: PLOT PLAN	
ATTACHMENT F: AREA MAP	
ATTACHMENT G: EQUIPMENT DATA SHEETS AND RI	EGISTRATION SECTION APPLICACE INTO A SECTION A
ATTACHMENT H: AIR POLLUTION CONTROL DEVICE	SHEETS
TA ATTACHMENT I: EMISSIONS CALCULATIONS	Of the Let 1 O
☑ ATTACHMENT J: CLASS I LEGAL ADVERTISEMENT	
ATTACHMENT K: ELECTRONIC SUBMITTAL	
DI ATTACHMENT L: GENERAL PERMIT REGISTRATION	APPLICATION FFF
☐ ATTACHMENT M: SITING CRITERIA WAIVER	AFFLICATION FEE
ATTACHMENT N: MATERIAL SAFETY DATA SHEETS	/Merses
ATTACHMENT O: EMISSIONS SUMMARY SHEETS	(MSDS)
OTHER SUPPORTING DOCUMENTATION NOT DESCRI	IDED ADOLG G
DESCR	IBED ABOVE (Equipment Drawings, Aggregation Discussion, etc.)
lease mail an original and two copies of the complete General Permit Re the address shown on the front page of this application. Please DO NOT irginia Air Pollution Rules and Regulations, please refer to the website strouched on the front page of the application.	rgistration Application with the signature(s) to the DAQ Permitting Section, at fax permit applications. For questions regarding applications or West nown on the front page of the application or call the phone number also

SECTION IV. CERTIFICATION OF INFORMATION

This General Permit Registration Application shall be signed below by a Responsible Official. A Responsible Official is a President. Vice President. Secretary. Treasurer, General Partner. General Manager, a member of a Board of Directors, or Owner, depending on business structure. A business may certify an Authorized Representative who shall have authority to bind the Corporation, Partnership, Limited Liability Company. Association, Joint Venture or Sole Proprietorship, Required records of cally throughput, hours of operation and maintenance, general correspondence, Emission Inventory, Certified Emission Statement, compliance certifications and all reduced notifications must be signed by a Responsible Official or an Authorized Representative. If a business wishes to certify an Authorized Representative, the official agreement below shall be checked off and the appropriate names and signatures entered. Any administratively incomplete or improperly signed or unsigned Registration Application will be returned to the applicant.

Joersky that I am a President, Vice President Secretary Treasurer or in charge of a principal business function of the corporation		FOR A	CORPORATION (domestic or foreign)	
FOR 8 LIMITED LIABILITY COMPANY Toertfy that I am a General Partner or General Manager FOR AN ASSOCIATION I certify that I am the President or a member of the Board of Directors FOR A JOINT VENTURE I certify that I am the President General Partner or General Manager FOR A SOLE PROPRIETORSHIP Leartfy that I am the Corner and Proprietor I thereby certify that I please print or type: Is an Authorized Representative and intal capacity shall represent the interest of the business (e.g., Company Association for Menture or Sole Proprietorship, and may obligate and legally bind the business if the business changes Authorized Representative and intal capacity shall represent the Discrete of the Office of Air Collaby Immediately, and or Increased and information contained in this General Perint Registration Application and any supporting quouments absorbed and comprehensive information gossible. Signature Name & Title Roy A Eller, Managing Member		D	I certify that I am a President. Vice President. Secret corporation	itary. Tmasurer or in charge of a principal business function of t
FOR A LIMITED LIABILITY COMPANY 2		FOR A	PARTNERSHIP	
EOR AN ASSOCIATION I cently that I am the President or a member of the Board of Directors EOR A JOINT VENTURE I cently that I am the President General Partner or General Manager FOR & SOLE PROPRIETORSHIP I cently that I am the Owner and Proprietor I thereby certify that I please print or type) Is an Authorized Representative and a mat capacity shall represent the interest of the business terp. Comporation, Partnership, Limited Charges its Authorized Representative and a mat capacity shall represent the interest of the business if this business. If the business if this business if the business if the business of this positive composition and venture or Sole Promotorship, and may disligate and regard business if this business if the busi		y North. Science		
EOR AN ASSOCIATION I certify that I am the President or a member of the Board of Directors EOR A JOINT VENTURE I certify that I am the President General Partner or General Manager FOR & SOLE PROPRIETORSHIP I certify that I am the Owner and Proprietor I hereby certify that I please print or type) Is an Authorized Representative and a trial capacity shall represent the interest of the business (e.g., Comporation, Partnershin, Limited Changes dis Authorized Representative and a trial capacity shall represent the interest of the business (if the business of the business of this business of this business of this business of this business of the business of this business of the		FOR A	IMITED LIABILITY COMPANY	
Certify that I am the President or a member of the Board of Directors EOR A JOINT VENTURE		Z	I certify that I am a General Partner or General Mana	ager
EOR A JOINT VENTURE Locatify that I am the President. General Panner or General Manager FOR A SOLE PROPRIETORSHIP Licertify that I am the Owner and Proprietor I I hereby certify that ignessentative and in that capacity shall reprosent the interest of the business (e.g., Compration, Partnership, Linded Liability Company, Association Joint Venture or Sole Proprietorship, and may obligate and legally bind the business if the business changes its Authorized Representative in Responsible Official shall notify the Director of the Office of Air Quality immufferedly and or in the office of Air Quality immufferedly and or in the office of Air Quality immufferedly and or in the office of Air Quality immufferedly and or in the office of Air Quality immufferedly and or in the office of Air Quality immufferedly and or in the office of Air Quality immufferedly and or in the office of Air Quality immufferedly and or in the office of Air Quality immufferedly and or in the office of Air Quality immufferedly and or in the office of Air Quality immufferedly and or in the office of Air Quality immufferedly and or in the office of Air Quality immufferedly and or in the office of Air Quality immufferedly and or in the office of Air Quality immufferedly and or in the office of Air Quality immufferedly and or in the office of Air Quality immuffered and complete of the Office of Air Quality immuffered and complete of the office of Air Quality immuffered and complete of the office of Air Quality immuffered and complete of the office of the Office of Air Quality immuffered and complete of the Office of Air Quality immuffered and complete of the office of the Office of Air Quality immuffered and complete of the Office of Air Quality immuffered and complete of the Office of the Office of Air Quality immuffered and complete of the Office of Air Quality immuffered and complete of the Office of Air Quality immuffered and complete of the Office of Air Quality immuffered and complete of the Office of Air Quality immuffered and complete of t		FOR AN		
Lostify that I am the President General Panner of General Manager FOR A SOLE PROPRIETORSHIP Lostify that I am the Owner and Proprietor		5	I certify that I am the President or a member of the Bo	Gard of Directors
FOR A SOLE PROPRIETORSHIP I certify that I am the Owner and Proprietor I thereby certify that iplease print or type: Is an Authorized Representative and in that capacity shall represent the interest of the business (e.g., Corporation, Partnership, Limited Liability Company, Association Joint Venture or Sole Proprietorship, and may obligate and legally bind the business of the office of An Quality immediately, and or interest of the Office of An Quality immediately and or interest is to the best of my knowledge true accurate and complete, and that all reasonable efforts have been made to provide the most comprehensive information gossible. Signature Separative (figs) Authorize Representative integrable. Part of Ready Mixed Concrete, LLC. Tog-997-8941 Tog-922-2195		EOR A	OINT VENTURE	
I certify that I am the Guner and Proprietor I hereby certify that iplease print or type: Is an Authorized Representative and in that capacity shall represent the interest of the business (e.g., Corporation, Partnership, Limited Liability Company, Association Joint Venture or Sole Proprietorship, and may obligate and legally bind the business. If the business changes its Authorized Representative, a Responsible Official shall notify the Director of the Office of Air Quality immediately, and/or interest to the bost of my knowledge true accurate and companies, and that all reasonable efforts have been made to provide the most comprehensive information passable. Sugmenting the accurate and companies, and that all reasonable efforts have been made to provide the most interest and the provide the most support of the Roy A. Filler, Managing Member. Signature Sugmetting the accurate and accurate. Advance Represent to discussion. The provide the most interest to the provide the most reasonable efforts have been made to provide the most reasonable efforts have been made to provide the most reasonable. Sugmetting the most reasonable efforts have been made to provide the most reasonable efforts have been made to provide the most reasonable efforts have been made to provide the most reasonable efforts have been made to provide the most reasonable efforts have been made to provide the most reasonable efforts have been made to provide the most reasonable efforts have been made to provide the most reasonable efforts have been made to provide the most reasonable efforts have been made to provide the most reasonable efforts have been made to provide the most reasonable efforts have been made to provide the most reasonable efforts have been made to provide the most reasonable efforts have been made to provide the most reasonable efforts have been made to			I cerbfy that I am the President. General Partner or Go	leneral Manager
I hereby certify that (please print or type) Is an Authorized Representative and in that capacity shall represent the interest of the business (e.g., Comporation, Partnership, Limited Liability Company, Association Joint Venture or Sole Prometorship, and may obligate and legally bind the business. If the business of the Ordine of Air Quality immediately, and or I hereby certify that all information contained in this General Permit Registration Application and any supporting documents appended northly is to the best of my knowledge true, accurate and complete, and that all reasonable efforts have been made to provide the most comprehensive information possible. Signature Signature Foreign to the Chest Roy A. Filler, Managing Member Signature Foreign Registerial and applicable. Date Partiot Ready Mixed Concrete, LLC. Togs-922-2195		EOR A S		
Lability Company Association Joint Venture in Sole Prophetorship and may obligate and legally bind the business of the business of the business of the prophetor of the Office of Air Quality immediately, and or increase of the Office of Air Quality immediately, and or increase of the office of Air Quality immediately, and or increase of the office of Air Quality immediately, and or increase of the office of Air Quality immediately, and or increase of the office of Air Quality immediately, and or increase of the office of Air Quality immediately, and or increase of the office of Air Quality immediately, and or increase of the original origina		vgwd	I certify that I am the Owner and Proprietor	
Lability Company Association Joint Venture in Sofe Prophetorship and may obligate and egally bind the business if the business changes its Authorized Representative. a Responsible Official shall notify the Director of the Office of Air Quality immediately, and or increase your control of my knowledge true accurate and compilete, and that all reasonable efforts have been made to provide the most comprehensive information possible. Signature Separate of the Roy A. Eller, Managing Member Forest true. Forest true of separate of separate. L.C. Tog-997-8941 Tog-997-8941 Tog-997-8941 Tog-997-8941	□ I her	reh) certify t	hat (please print or type)	
Name & Title Roy A. Filler, Managing Member Signature politicals Applicant's Name Patriot Ready Mixed Concrete, LLC. hone & Fax 703-997-8941	Criena	Jes as Authe	rized Representative, a Responsible Official shall natry	y the Director of the Office of Air Quality immediately, and/or
III.07/2016 Separation (Separation (Separ	Litera,	Jes as Aythe his c∈etiks an	rized Representative, a Responsible Official shall notify	y the Director of the Office of Air Quality immediately, and or
Hame & Title Roy A. Filler, Managing Member lignature Patriot Ready Mixed Concrete, LLC. hone & Fax 703-997-8941 703-922-2195	I here Perest compi	Jes as Aythe his c∈etiks an	rized Representative, a Responsible Official shall notify	y the Director of the Office of Air Quality immediately, and or
pplicant's Name Patriot Ready Mixed Concrete, LLC. hone & Fax 703-997-8941 Fac	I here complete Signature	Jes as Aythe his c∈etiks an	inized Representative, a Responsible Official shall natify at all information contained in this General Permit Regis ast of my knowledge, true, accurate and complete, and formation possible	y the Director of the Office of Air Quality immediately, and or stration Application and any supporting documents appended that all reasonable efforts have been made to provide the mos
pplicant's Name Patriot Ready Mixed Concrete, LLC. hone & Fax 703-997-8941 Fac	I here nerete complete state the second state state the second se	by certify th	inized Representative, a Responsible Official shall notify at all information contained in this General Permit Regis assist of my knowledge, true, accurate and complete, and formation possible	y the Director of the Office of Air Quality immediately, and or shation Application and any supporting documents appended that all reasonable efforts have been made to provide the mass 11/07/2016
pplicant's Name Patriot Ready Mixed Concrete, LLC. hone & Fax 703-997-8941 703-922-2195	I here herek compi Signature	by certify th	inized Representative, a Responsible Official shall notify at all information contained in this General Permit Regis assist of my knowledge, true, accurate and complete, and formation possible	y the Director of the Office of Air Quality immediately, and or shation Application and any supporting documents appended that all reasonable efforts have been made to provide the mass 11/07/2016
pplicant's Name Patriot Ready Mixed Concrete, LLC. hone & Fax 703-997-8941 703-922-2195	I here herek compi Signature	by certify th	inized Representative, a Responsible Official shall notify all all information contained in this General Permit Regis assist of my knowledge, true, accurate and complete, and formation possible	y the Director of the Office of Air Quality immediately, and or shation Application and any supporting documents appended that all reasonable efforts have been made to provide the mass 11/07/2016
pplicant's Name Patriot Ready Mixed Concrete, LLC. none & Fax 703-997-8941 703-922-2195	inered complete the second	pes its Authority the second s	inized Representative, a Responsible Official shall mainly at all information contained in this General Permit Registed for knowledge, true, accurate and complete, and formation possible Formation Chical Formation Chical	y the Director of the Office of Air Quality immediately, and or stration Application and any supporting documents appended that all reasonable efforts have been made to provide the most that all reasonable efforts have been made to provide the most that all reasonable efforts have been made to provide the most that all reasonable efforts have been made to provide the most that all reasonable efforts have been made to provide the most that all reasonable efforts have been made to provide the most than the provided that the most transfer is the provided that the provided the provided that the provided
hone & Fax 703-997-8941 703-922-2195	ignature Jame & Title	pes its Authority the second s	inized Representative, a Responsible Official shall natify all all information contained in this General Permit Reg sheet of my knowledge, true accurate and complete, and formation possible Season to Chear Eller, Managing Member	y the Director of the Office of Air Quality immediately, and or stration Application and any supporting documents appended that all reasonable efforts have been made to provide the mass 11/07/2016
none & Fax 703-997-8941 703-922-2195	inere de title	pos its Authority the noise to the breensive in Roy A	Authorizar Representative of Responsible Official shall mainly all air information contained in this General Permit Registers of my knowledge, true, accurate and complete, and formation possible Foreigness officer Authorizar Represents to the accurate.	y the Director of the Office of Air Quality immediately, and or stration Application and any supporting documents appended that all reasonable efforts have been made to provide the most stration and any supporting documents appended that all reasonable efforts have been made to provide the most stration.
113 - 7 de de mais de la companya por la companya por la companya de la companya	inera- herate compi ignature case perforage ignature	pos its Authority the noise to the breensive in Roy A	Authorizar Representative of Responsible Official shall mainly all air information contained in this General Permit Registers of my knowledge, true, accurate and complete, and formation possible Foreigness officer Authorizar Represents to the accurate.	y the Director of the Office of Air Quality immediately, and or stration Application and any supporting documents appended that all reasonable efforts have been made to provide the most stration and any supporting documents appended that all reasonable efforts have been made to provide the most stration.
246	inere here here here here here here here	Roy A. Roy A.	of Ready Mixed Concrete, LLC.	y the Director of the Office of Air Quality immediately, and or stration Application and any supporting documents appended that all reasonable efforts have been made to provide the most support of the provide the provide the provide the provide the provide the provide the provided the pr
пол польные распотеасутих сот	inere here here here here here here here	Roy A. Roy A.	at all information contained in this General Permit Reg seet of my knowledge, true, accurate and complete, and formation possible Formation Cities Eller, Managing Member Authoriza Regression and accurate and complete, and complete of the cities of the	y the Director of the Office of Air Quality immediately, and or stration Application and any supporting documents appended that all reasonable efforts have been made to provide the mass 11/07/2016
	Signature Jame & Title Jame	Roy A. Roy A. 703-997	and all information contained in this General Permit Register my knowledge, true accurate and complete, and formation possible Season the City at Beller, Managing Member Alterial Representation discounts of Ready Mixed Concrete, LLC.	y the Director of the Office of Air Quality immediately, and or stration Application and any supporting documents appended that all reasonable efforts have been made to provide the mass 11/07/2016
	Signature Signature Signature Signature Signature Applicant's Nar	Roy A. Roy A. 703-997	and all information contained in this General Permit Register my knowledge, true accurate and complete, and formation possible Season the City at Beller, Managing Member Alterial Representation discounts of Ready Mixed Concrete, LLC.	y the Director of the Office of Air Quality immediately, and or stration Application and any supporting documents appended that all reasonable efforts have been made to provide the mass 11/07/2016

Natalie E. Tennant

FILED

West Virginia Secretary of State

1900 Kanawha Blvd. East

GET 3 1 2016 Bldg. I, Suite 157-K

Charleston, WV 25305

IN THE OFFICE OF SECRETARY OF STATE

FILE ONE ORIGINAL (Two if you want a filed stamped copy returned to you.)

WEST VIRGINIA APPLICATION FOR CERTIFICATE OF AUTHORITY OF LIMITED LIABILITY COMPANY

Penney Barker, Manager Business & Licensing Division Tel: (304)558-8000 Fax: (304)558-8381 Website: www.wysos.com E-mail: business a wysos com

Office Hours: Monday - Friday 8:30 a.m. - 5:00 p.m. EST

FILING FEE: \$150 * Fee Waived for Veteran-owned organization

*** The undersigned, having authority to transact business on behalf of a foreign (out-of-state) registered entity, agrees to comply with the requirements of West Virginia Code \$31B-10-1002 to apply for Certificate of Authority. 1. The name of the limited liability company as Patriot Ready Mixed Concrete, LLC. registered in its home state is and the State or Country of organization is: Virginia CHECK HERE to indicate you have obtained and submitted with this application a CERTIFICATE OF EXISTENCE (GOOD STANDING), dated during the current tax year, from your home state of original formation as required to process your application. The certificate may be obtained by contacting the Secretary of State's Office in the home state of original formation. 2. The business name to be used in West Home State name as listed in Section 1. above, if available in West Virginia Virginia will be: [The name must con-(If name is not available, check DBA Name box below and follow special instructions tain one of the required terms such as "limited liability company" or abbreviations in Section 2, attached.) such as "LLC" or "PLLC." See instructions DBA Name for complete list of acceptable terms and re-(See special instructions in Section 2, regarding the Letter of Resolution attached to quirements for use of Trade Name 1 this application. Click here to see a sample Letter of Resolution.) 3. The company will be a: [See instructions regular LLC for limitations on professions which may form P.L.L.C. in WV. All members must have WV Professional LLC* for the profession of professional license. See (*) note at the right.} * In most cases, a Letter of Authorization/Approval from the appropriate State Licensing Board is required to process the application. See attached instructions. 4. The address of the principal office Street of the company will be: Old Francoria Located in the County of (required): County The mailing address of the above Street: location, if different, will be: City State Zio Code 5. The address of the initial designated Street: (physical) office of the company in West Virginia, if any, will be: City: State: County

Issued by the Office of the Secretary of State

338010

The mailing address of the above location, if different, will be:	Street:		
was a second will be.	City:	State:	Zip Code:
Agent of Process:	Name.	annia kangan ang kanang kanang kanang kanang sakang kanang kanang kanang kanang kanang kanang kanang kanang ka Manang kanang kanan	
may be sent, if any, will be:		1994 distribution dan kapaban dia hari waka distribution propertie demandi ya kata distribution di sistema di santa	
	Street:	array and a special conduction. Making an adding, we admining grows also the desired scalars of which dependence for which of desired and an administration of the desired and an administration of the desired and administration of the desired an	
	City:	State:	Zip Code:
E-mail address where business correspondent	ondence may be received:	roy eller Doats	interest and
Website address of the business, if any	(ex: yourdomainname.coi	m): which a thick	rietroaymix.com
Do you own or operate more than one	Yes * Answer a, ai		
husiness in West Virginia? If "Yes" a. How many businesses?	***************************************	land Lange	Decline to answer
-		f in how many West Virginia	counties?
). The company is: [an AT-WILL (required)	company, conducting busi	iness for an indefinite period.	
a 1 Fight comb	pany, conducting business	for the term ofye	ars.
The			
The company is: MEMBER-MA (required) MANAGER-M	ANAGED [List the names MANAGED [List the names	s and addresses of all members	rs below.1
(required) MANAGER-N	MANAGED [List the nam	es and addresses of all manag	rs below.} gers below.]
(required) MANAGER-M List the name(s) and address(es) of the	MANAGED [List the nam	es and addresses of all manag	rs below.} gers below.]
(required) MANAGER-N List the name(s) and address(es) of the Name	MANAGED [List the nam Member(s)/Manager(s)	es and addresses of all managers of the company (required: atte	rs below.] gers below.] ich additional pages if necessary
(required) MANAGER-N List the name(s) and address(es) of the Name	MANAGED [List the nam Member(s)/Manager(s) No. & Street Address	es and addresses of all manag of the company (required: atta City	rs below.] gers below.] ueh additional pages if necessary State Zip Code
(required) MANAGER-N List the name(s) and address(es) of the Name Roy Eller 5901 N All or specified members of a limited	MANAGED [List the nam Member(s)/Manager(s) No. & Street Address Northam Dr.	es and addresses of all managers of the company (required: attending City: Alexandria	rs below.] gers below.] uch additional pages if necessary State Zip Code VA 22315
(required) MANAGER-M List the name(s) and address(es) of the Name Poy Eller 5901 N All or specified members of a limited liability company are liable in their capacity as members for all or specified	MANAGED [List the nam Member(s)/Manager(s) No. & Street Address Norham Dr. No - All debts, of the control of t	of the company (required: attended to the company) (required: atte	rs below.] gers below.] uch additional pages if necessary State Zip Code VA 22315 hose of the company.
(required) MANAGER-M List the name(s) and address(es) of the Name Poy Eller 5901 N All or specified members of a limited liability company are liable in their	MANAGED [List the nam Member(s)/Manager(s) No. & Street Address Nor - All debts, of the control of the contr	of the company (required: atta City: Alexandria obligations and liabilities are the sons who are liable in their cas or liability of the company is	rs below.] gers below.] uch additional pages if necessary State Zip Code VA 22315 hose of the company. spacity as members for all debts.
(required) MANAGER-N List the name(s) and address(es) of the Name Roy Eller 5901 All or specified members of a limited liability company are liable in their capacity as members for all or specified debts, obligations or liabilities of the company (required): The purpose(s) for which this limited liability and second and se	MANAGED [List the nam Member(s)/Manager(s) No. & Street Address Lovham Dr. No - All debts, of the continuous periodication continuous continu	of the company (required: atta City: Alexandria obligations and liabilities are the sons who are liable in their case or liability of the company to the provision or to be bounced.	rs below.] gers below.] State Zip Code VA 22315 hose of the company. spacity as members for all debts, have consented in writing to the by the provision.
(required) MANAGER-N List the name(s) and address(es) of the Name Roy Eller 5901 h All or specified members of a limited liability company are liable in their capacity as members for all or specified debts, obligations or liabilities of the company (required): The purpose(s) for which this limited lia [Describe the type(s) of business actions who	MANAGED [List the nam Member(s)/Manager(s) No. & Street Address Lovham Dr. No - All debts, of the configution adoption of the configuration of the configu	of the company (required: atta City Alexandria obligations and liabilities are the sons who are liable in their case or liability of the company to the provision or to be bounced is as follows:	rs below.] gers below.] State Zip Code VA 22315 hose of the company. spacity as members for all debts, have consented in writing to the by the provision.
All or specified members of a limited liability company are liable in their capacity as members for all or specified debts, obligations or liabilities of the company (required): The purpose(s) for which this limited lia [Describe the type(s) of business activity who buildings." commercial painting "invalescent	Member(s)/Manager(s) No. & Street Address No. All debts, of the street obligation adoption of the will be conducted, for example of the street of the stree	of the company (required: atta City: Alexandria bligations and liabilities are the sons who are liable in their case or liability of the company for the provision or to be bounced is as follows: ample, "real estate," "construction of the provision or to be sound to b	rs below.] gers below.] ich additional pages if necessary State Zip Code VA 22315 hose of the company. spacity as members for all debts, have consented in writing to the dipy the provision.
(required) MANAGER-M List the name(s) and address(es) of the Name Poy Eller 5901 N All or specified members of a limited liability company are liable in their capacity as members for all or specified debts, obligations or liabilities of the company (required): The purpose(s) for which this limited lia [Describe the type(s) of business activity which buildings," "commercial painting." "professionay conclude with words "including the tri Virginia."]	Member(s)/Manager(s) No. & Street Address No. All debts, of the Ad	of the company (required: and City: Alexandria Soligations and liabilities are the sons who are liable in their case or liability of the company hof the provision or to be bounced is as follows: ample, "real estate," "construction 2, for acceptable "profession I business for which corporations	rs below.] gers below.] ich additional pages if necessary State Zip Code VA 22315 hose of the company. apacity as members for all debts, have consented in writing to the diby the provision. In of residential and commercial half business activities). Purpose may be incorporated in West
(required) MANAGER-M List the name(s) and address(es) of the Name Poy Eller 5901 N All or specified members of a limited liability company are liable in their capacity as members for all or specified debts, obligations or liabilities of the company (required): The purpose(s) for which this limited lia [Describe the type(s) of business activity which buildings," "commercial painting." "professionay conclude with words "including the tri Virginia."]	Member(s)/Manager(s) No. & Street Address No. All debts, of the Ad	of the company (required: and City: Alexandria Soligations and liabilities are the sons who are liable in their case or liability of the company hof the provision or to be bounced is as follows: ample, "real estate," "construction 2, for acceptable "profession I business for which corporations	rs below.] gers below.] ich additional pages if necessary State Zip Code VA 22315 hose of the company. apacity as members for all debts, have consented in writing to the diby the provision. In of residential and commercial half business activities). Purpose may be incorporated in West
All or specified members of a limited liability company are liable in their capacity as members for all or specified debts, obligations or liabilities of the company (required): The purpose(s) for which this limited lia [Describe the type(s) of business activity who buildings." commercial painting "invalescent	Member(s)/Manager(s) No. & Street Address No. All debts, of the Ad	of the company (required: and City: Alexandria Soligations and liabilities are the sons who are liable in their case or liability of the company hof the provision or to be bounced is as follows: ample, "real estate," "construction 2, for acceptable "profession I business for which corporations	rs below.] gers below.] ich additional pages if necessary State Zip Code VA 22315 hose of the company. apacity as members for all debts, have consented in writing to the diby the provision. In of residential and commercial half business activities). Purpose may be incorporated in West

15. Other provisions which may be set forth in the [See instructions for further information: use extra		MITED LIABILITY COMPANY natters not inconsistent with law:	Page
16. The number of pages attached and included in	these Articles is:		andranago-allenga jeril di Antiquescopog di Ar
17. The requested effective date is: [Requested date may not be earlier than filing nor later than 90 days after filing in our office.]	P. Company	of filing in the Secretary of State's Office. and time	
18. Is the organization a "veteran-owned" organiz	ation?	depropriation desired and an analysis of the second and a	
Effective JULY 1, 2015, to meet the requirem meet the following criteria per West Virginia Co	nents for a "veteran-owne	d" organization, the entity filing the registration	must
1. A "veteran" must be honorably discharged of 2. A "veteran-owned business" means a busine of 1s at least fifty-one percent (51%) uncondition of 1s at least of a publicly owned business, a more veterans. Yes (If "Yes," attach Form DD214)	ess that meets one of the fo tionally owned by one or n i least fifty-one percent (5)	sllowing criteria; nore veterans, or 1%) of the stock is unconditionally owned by one	or
anath I will DD214)	CHECK BOX indicating	ig you have anached Veteran Affairs Form DD214	
	You may obtain a copy of your Veterans Affairs Form DD214 by contacting:	National Personnel Records Center Military Personnel Records 1 Archives Drive St. Louis, MO 63138 Toll free: 1-86-NARA-NARA or 1-866-272 622	2
		From: 314-801-0800	
Per WV Code 59-1-20; effective July 1, 2015, the reorganization. See attached instructions to determine if t four (4) consecutive years of Annual Report fees wait	egistration fee is waived for the organization qualifies for ved AFTER the organization	entities that meet the requirements on a facility	vned" have
19. Contact and Signature Information* (See belo	w <u>Important Legal Notice</u>	Rogardina Sign and	
a. Contact person to reach in case there is a proble	ere secreta (CT.		
	Roy E	11er Phone: 703-997-80	141
b. Print or type name of signer: ROY A. E	ller	Title Capacity of signer: Managing Mon	NOTE Proposition du
c. Signature:	The state of the s	Managing Man	ber
	Date:	10/12/16	
*Important Legal Notice Regarding Signature: Per if a record authorized or required to be filed under this characteristic amages for the loss from a person who signed the false at the time the record was signed. Important Note: This form is a public document. Please security number, bank account numbers, credit card number.	ic record or caused another to	sign it on the person's behalf and knew the statement to	may o be
Reset Form Print Form			

Commonwealth of Virginia



State Corporation Commission

CERTIFICATE OF FACT

I Certify the Following from the Records of the Commission:

That Patriot Ready Mixed Concrete, L.L.C. is duly organized as a limited liability company under the law of the Commonwealth of Virginia;

That the date of its organization is May 24, 2006; and

That the limited liability company is in existence in the Commonwealth of Virginia as of the date set forth below.

Nothing more is hereby certified.

STATE OF THE STATE

Signed and Sealed at Richmond on this Date: February 21, 2016

Joel H. Peck, Clerk of the Commission

CISECOM
Document Control Number: 1602215567



I, Natalie E. Tennant, Secretary of State of the State of West Virginia, hereby certify that

PATRIOT READY MIXED CONCRETE, L.L.C.

Control Number: 9AG81

a limited liability company, organized under the laws of the State of Virginia has filed its "Application for Certificate of Authority" in my office according to the provisions of West Virginia Code §31B-10-1002. Thereby declare the organization to be registered as a foreign limited liability company from its effective date of October 31, 2016, until a certificate of cancellation is filed with our office.

Therefore. I hereby issue this

CERTIFICATE OF AUTHORITY OF A FOREIGN LIMITED LIABILITY COMPANY

to the limited liability company authorizing it to transact business in West Virginia



Given under my hand and the Great Seal of the State of West Virginia on this day of October 31, 2016

Wateril E Jerment

PATRIOT READY MIX

PROCESS DESCRIPTION

After initial plant setup:

- 1) Aggregate and sand are delivered via dump truck and unloaded into enclosed stockpile areas (E3-1 & E3-2). To minimize fugitive emissions aggregate stockpile area and dump truck unloading area are to be sprayed, as needed with water, using sprinkler (WS-1). Dump truck haul roads are to be sprayed, as needed with water, using sprinklers (WS-3, WS-4, WS-5).
- 2) Cement and flyash are delivered via truck and pneumatically unloaded into enclosed storage silos (BS-1 & BS-2). To minimize fugitive emissions, a central dust collector (APCD-1) is connected, via flexible ducting to both storage bins. Cement and flyash truck unloading area is to be sprayed, as needed with water, using sprinkler (WS-3). Haul roads for cement and flyash deliveries are to be sprayed, as needed with water, from sprinklers (WS-3, WS-4, WS-5)
- 3) Water tank (T-3) is filled from available water source
- 4) Admixtures are delivered

After all constituents are delivered and stockpiled:

- Aggregate and sand are loaded into the plant via wheel loader. To minimize fugitive emissions wheel loader work area is to be sprayed, as needed with water, using sprinkler (WS-2).
- 2) Water is heated (if needed) using 1.4 mil. BTU #2 fuel fired boiler

Once the plant is filled and water heated

- Aggregate and Sand are weighed, cumulatively, into the weigh hopper (WH-1). To minimize
 fugitive emissions weigh hopper (WH-1) is enclosed, additionally a minimal drop height
 between the storage bin and weigh hopper is used.
- 2) Cement and Flyash are weighed, cumulatively, into the weigh hopper (WH-2). To minimize fugitive emissions cement and flyash are conveyed to the weigh hopper via totally enclosed screw conveyors and weigh hopper (WH-2) is connected via flexible ducting to the dust collector (APCD-1)
- 3) Water meter is preset to the desired amount
- 4) Admixture dispensers are filled to the desired amount

As constituents are weighed or measured the plant operator confirms that the weights are correct, in the event the amounts are incorrect the plant operator will take appropriate action to ensure that the proper amount are weighed.

After all constituents are weighed, and confirmed as correct:

- The plant operator begins to discharge the constituents into the mixer truck, in the proper sequence. Aggregate and sand are discharged into the truck via partially enclosed conveyor belt and cement and flyash are discharged directly from the weigh hopper (WH-2) into the mixer truck. To minimize fugitive emissions the loading hopper of the mixer truck is inside of a shroud, the shroud is connected to the dust collector (APCD-1) via rigid and flexible ducting. The loading shroud has 3 pickup points located, one each, on the left, right and rear of the mixer truck loading hopper.
- The mixer truck driver will fill or refill their water tank(s) if needed, while the truck is being loaded

After the mixer truck is loaded the plant operator will confirm that all ingredients were properly loaded and the mixer truck driver will confirm that any and all loose materials are removed from the truck, before leaving the plant site and proceeding to the jobsite. To minimize fugitive dust emissions the haul roads for the mixer truck entering and leaving the plant are to be sprayed, as needed with water, from sprinklers (WS-3, WS-4, WS-5)

Throughout the day aggregate and sand may be delivered to the stockpiles, and cement and flyash may also be delivered to the storage bins. These deliveries are concurrent with the loading of mixer trucks.

PATRIOT READY MIX

DESCRIPTION OF FUGITIVE EMISSIONS

Fugitive emissions sources include those generated from the delivery and unloading of aggregate and sand, and the subsequent use of wheel loader to transfer these materials to the batch plant. All fugitive resulting from delivery and transfer by wheel loader, the fugitive emissions from these processes are minimized by the use of water sprinklers. Fugitive emissions generated from weighing the aggregate and sand is controlled by enclosing the weigh hopper for these materials.

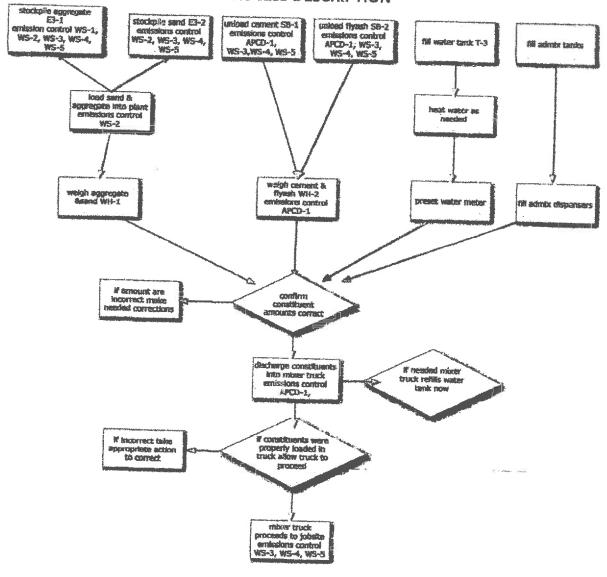
Cement and Flyash emissions are controlled by the use of a central dust collector attached to separate enclosed silos for each material; additionally the central dust collector will be used to control emission when weighing both the cement and flyash in the weigh hopper.

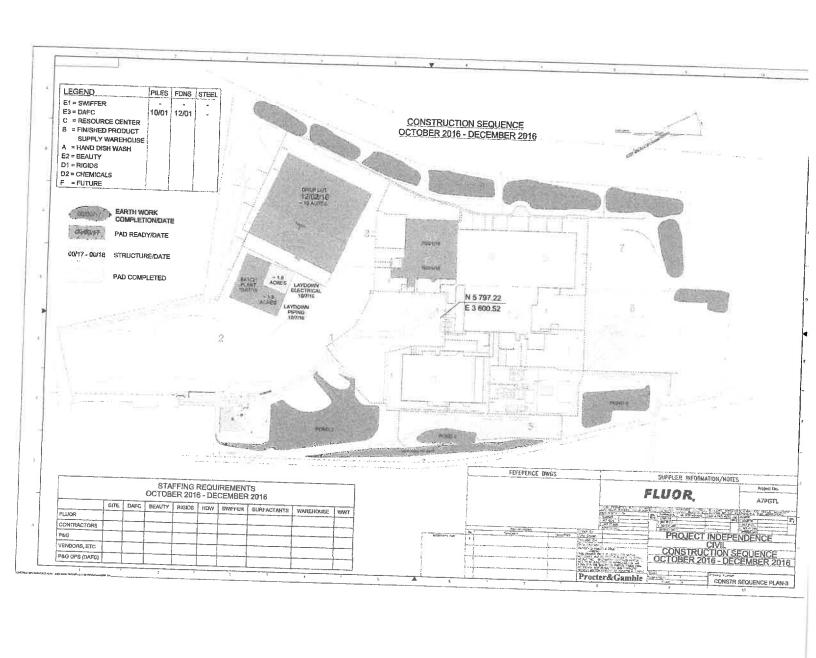
Fugitive emissions that are generated when the mixer truck is being loaded will be collected by the central dust collector via loading shroud.

All materials collected by the central dust collector shall be returned to the flyash silo using a totally enclosed pneumatic system, this return process is automatic and programmable to adjust for frequency of loading and unloading.

All haul roads will be of coarse gravel and fugitive emissions will be controlled by water spray, as needed, from sprinklers. The sprinklers will be supplied by two pumps supplying water at a rate of 40 gai/min. Sprinklers will be controlled individually and manually. Sprinkler heads will be removed and lines will be evacuated, using compressed air, to prevent freezing.

PATRIOT READY MIX PROCESS DESCRIPTION





Go gle

Map data @2016 Google 500 ft

11/4/2016



Development Dr Inwood, WV 25428 Development Dr - Google Maps

CBP PRODUCTION AFFECTED SOURCE SHEET

	Source Identification Number ¹	CBP-1	
	Manufacturer & Model Number	58061	
	Date of Manufacture	2015	
	Maximum Design Production Rate ²	300 tn/hr	
	Maximum Annual Production ³	750000 tn/yr	
СВР	Daily Operation	10	hours/day
Production Information	Annual Operation	250	days/year
		2500	hours/year
	Approximate Percentage of Operation from:	15	Jan - Mar
	or Operation nom:	40	April - June
		30	July - Sept
		15	Oct - Dec

- 1. Enter the appropriate Source Identification Number for each concrete batch plant production weigh hopper or central mixer. Batch plant weigh hopper should be designated WH-1, WH-2, etc. Batch plant central mixer should be designated CM-1, CM-2, etc.
- 2. Enter the manufacturer's Maximum Design Production Rate of the concrete batch plant production equipment. Specify units in tons/hour.
- 3. Enter the Maximum Annual Production of the concrete batch plant. Specify units of cubic yards per year or tons per year. To calculate Maximum Annual Production, multiply the Maximum Design Production Rate (tons/hr) by the Annual Operation (hrs/yr).

CBP PARTICULATE MATTER CAPTURE SYSTEM AFFECTED SOURCE SHEET

Pursuant to Section 2.2.4 of General Permit G50-B, the registrant shall not cause, suffer, allow, or permit any registered concrete batch plant to operate that is not equipped with an effective particulate matter capture system(s) and associated air pollution control device(s) to minimize the emission of particulate matter from production equipment, storage structures and silos. The particulate matter capture system shall ensure the lowest fugitive particulate emissions reasonably achievable.

A particulate matter capture system shall be used to confine, collect, and transport displaced particulate matter from production weigh hoppers, cement and flyash storage structures and/or silos to an air pollution control device. Particulate matter capture systems may include but not be limited to: hoods, bins, ductwork, enclosures and air pollution control devices such as fabric filter baghouses, associated fans, discharge socks and filter vents.

Provide a written description of the concrete batch plant's particulate matter capture system below:

The particulate matter capture system consists of one "central" dust collector and particulate recycle system and one cement silo filter house.
The dust collector is attached to the mixer truck loading shroud and the cement scale; The shroud contains two pickup points located diagonally on the top, effectively surrounding the truck loading point. The cement scale contains one pickup point allowing the dust collector to vent the scale and collect dust while being loaded.
All particulate matter collected from the mixer truck loading area is automatically returned (pneumatically) to the fly ash storage silo (SB-2) for reuse. The rate of return and reuse is variable and can be adjusted based on the batch plants daily production.
The dust collector is equipped with a device to measure pressure drop across the filter elements and is monitored and recorded daily, and the filter elements are cleaned with a jet pulse system and are replaced whenever the pressure drop is outside of the manufacturers recommended operating parameters.
The cement silo house consists of a series of filter cartridges that contain the particulate matter created while material is pneumatically delivered to the silo. The cartridges are cleaned with a jet pulse system.

CBP MATERIAL STORAGE & HANDLING AFFECTED COLLOCE CHEET

	AFFE	CTED SO	OURCE S	HEET	. , •	
Source Identification Number ¹	ES-1	ES-2	BS-1	BS-2		
Material Stored ²	Stone	Sand	Cement	Flyash		
Maximum Yearly Throughput (tons/year) ³	346875	241875	90000	22500		
Typical Moisture Content (%) ⁴	.05%	5.0%	0	0		
Average % of Material Passing Through 200 Mesh Sieve ⁵	<1%	<2%	100	99		
Maximum Stockpile Base Area (fi²)6	1000	1000	N/A	N/A		
Maximum Stockpile Height (ft) ⁷	8	8	N/A	N/A		
Maximum Storage Capacity (tons) ⁸	350	350	75	30		
Dust Control Method Applied to Storage ⁹	WS	NO	FE	FE		
Method of Material Load-in to Bin or Stockpile ¹⁰	TD	TD	ST	ST		
Dust Control Method Applied During Load-in ¹¹	WS	NO	FE	FE		
Method of Material Load-out from Bin or Stockpile ¹⁰	FE	FE	ST	ST		
Oust Control Method Applied During Load-out ¹¹	MD	MD	FE	FE		
SF Stockpiles with wind fences Describe the type of material stored or stock Enter the maximum yearly storage throughr Enter the average percent moisture content. Enter the average percent of material that w For stockpiles, enter the maximum stockpile For stockpiles, enter the maximum stockpile Enter the maximum storage capacity for eac Enter the dust control method applied to ston CA Crusting Agent FE Full Enclosure OT Other Enter the method of load-in or load-out to/f FE Front Endloader SS ST Stacking Tube MC CS Clamshell OT Other	E3 Enclosure (SB Storage Bu OT Other spiled. out for each storage of the stored mate ill pass through a base area. height. h storage activity age activity using WS Water Spray O None (please spectom stockpiles or Stationary Convey Mobile Conveyor Truck Dump	three-sided enclosidding (full enclosidding (full enclosidding) (full enclosed enclo	sure) (please specify apacity, maximur des:)	respectively.	y utilizes four oper
FE Full Enclosure MD	ng load-in or load S Water Spray Minimize Drop	l-out using the fol	lowing codes:			
OT Other NO	None					

(please specify)

OT

Other

AIR POLLUTION CONTROL DEVICE AFFECTED SOURCE SHEET

CBP Air Pollution	Control Device Data Sheet	Fabric Filter Baghouse	Filter Vent	Fabric Filter Discharge Sock
	APCD Identification Number ¹	APCD-1		
	Manufacturer & Model Number	C&W CP7500M		
	Number of Compartments	1		
General	Gas Inlet Area (ft²)	1.39		
Information	Gas Outlet Area (ft²)	2.29		
	Fabric Filter Cleaning Mechanism ²	Pulse jet w/ timer		
	Total Cloth (fabric) Area (ft²)	1072		
	Draft Fan HP	15		
	Outlet Stack Area (ft²)	2.29		
	Minimum Design PD (in H₂O)	3" or less depending on thickness of cake.		
	Maximum Design PD (in H ₂ O)	8		,
0	Inlet Gas Flow Rate (ACFM)	7500		
Operational Parameters	Inlet Gas Temperature (°F)	ambient		
· arameters	Inlet Gas Pressure (PSIA)	na		
	Inlet Gas Velocity (ft/sec)	90		
	PM Inlet Rate (grains/scf)	0.73500		
	PM Outlet Rate (grains/scf)	0.000073500		
	Operating Air/Cloth Ratio (ft/min)	7		

^{1.} Enter the appropriate Air Pollution Control Device Identification Number for each fabric filter baghouse, filter vent or discharge sock. The devices should be designated APCD-1, APCD-2, APCD-3, etc. 2. Enter method used to clean bags: shaker, pulse jet, reverse jet or other.

4. Enter the fractional efficiency of the fabric filter baghouse.

^{3.} Complete more than one CBP Air Pollution Control Device Data Sheet if necessary.

AIR POLLUTION CONTROL DEVICE AFFECTED SOURCE SHEET

CBP Air Pollution	Control Device Data Sheet	Fabric Filter Baghouse	Filter Vent	Fabric Filter Discharge Soc
	APCD Identification Number ¹		APCD-2	Discharge 500
	Manufacturer & Model Number		Stephens SOS1020x2	
	Number of Compartments		Stephens 3031020x2	
General	Gas Inlet Area (ft²)			
Information	Gas Outlet Area (ft²)		Cement	
	Fabric Filter Cleaning Mechanism ²		Cement Pulse Air	
	Total Cloth (fabric) Area (ft²)			
	Draft Fan HP		900	
	Outlet Stack Area (ft²)			
	Minimum Design PD (in H₂O)		0	
	Maximum Design PD (in H₂O)		5	
0	Inlet Gas Flow Rate (ACFM)			
Operational Parameters	Inlet Gas Temperature (°F)		Cement	
i didilicters	Inlet Gas Pressure (PSIA)		Cement	
	Inlet Gas Velocity (ft/sec)		Cernent	
	PM Inlet Rate (grains/scf)		Cement	
	PM Outlet Rate (grains/scf)		3	
	Operating Air/Cloth Ratio (ft/min)		8.5 to 1	

^{1.} Enter the appropriate Air Pollution Control Device Identification Number for each fabric filter baghouse, filter vent or discharge sock. The devices should be designated APCD-1, APCD-2, APCD-3, etc.

2. Enter method used to clean bags: shaker, pulse jet, reverse jet or other.

4. Enter the fractional efficiency of the fabric filter baghouse.

^{3.} Complete more than one CBP Air Pollution Control Device Data Sheet if necessary.

CBP FUGITIVE DUST CONTROL SYSTEM AFFECTED SOURCE SHEET

	Fugitive Dust Control Method 1	WS
	Design Water Flow Rate (gpm) ²	15GPM
	Chemical Additive 3	N/A
	Water/Additive Mix Ratio 4	N/A
Fugitive Dust Control	Amount (gal/yd) 5	.15
System Data	Frequency of Application 6	As needed
System Data	Haulroad Surface 7	Compacted Base
	Work/Storage Area Surface 8	85000 ft2
	Haulroad Length 9	600
	Number of Vehicles per day 10	30
	Number of Wheels per Vehicle 11	14
	Weight of Vehicle (tons) 12	35

1. Enter the fugitive dust control method(s) using the following codes:

WT Water Truck

WS Fixed Water Sprays

UW Underbody Truck Wash

RS Rumble Strips

OT Other (please specify)

- 2. Enter the design water flow rate for the water truck or fixed water sprays in gallons per minute.
- 3. Enter manufacturer and type, specification or grade of chemical additive.
- 4. Enter the water/chemical additive mix ratio.
- 5. Enter the amount of water or water/chemical additive mix to be applied to haulroads, storage and work areas in gallons per square yard.
- 6. Enter the frequency of application of water/chemical additive mix to haulroads, storage and work areas during periods of dry weather.
- 7. Enter the type of haulroad, work and storage area surface (asphalt pavement, concrete, dirt, coarse gravel, reddog, etc.).
- 8. Enter the approximate length of haulroad(s) in miles or feet. List appropriate units.
- 9. Enter the maximum daily vehicle traffic (trucks per day).
- 10. Enter the maximum number of wheels per vehicle.
- 11. Enter the mean vehicle weight in tons.
- 12. Complete a separate HMA Plant Fugitive Dust Control System Data sheet for each fugitive dust control system.

Provide a written description of the concrete batch plant's particulate matter capture system below:

ggregate and sand are explained as a second plant is particulate matter capture system below:
ggregate and sand are enclosed on 3 sides and covered at night.
ggregate stockpile area, truck dump area, end loader work area are to be sprinkled as needed, at a rate of I0 gpm.
he Concrete Batch Pant will be partially enclosed, to minimize fugitive dust during weighing and truck loading
ixer truck loading will incorporate the use of a shroud attached to the central dust collector (APCD-1) via duct work at 2 points
attached to the tentral dust collector (APCD-1) via duct work at 2 points
aul Roads and other work areas will be sprayed, as needed, with water sprinklers at a total rate of 30gpm.
her not in waster sprinklers at a total rate of 30gpm.
hen not in use water sprinklers and water lines will be blown clear, with compressed air, to prevent freezing.

CBP STORAGE TANK AFFECTED SOURCE SHEET

Source Identification Number ¹	Content ²	Length ³ (ft)	Dia ⁴ (ft)	Volume ⁵ (gallons)	Throughput ⁶ (gal/yr)	Orientation ⁷	Liquid Height
T-1	Diesel	8	3	500	60000	IVODG	(ft)
T-2	Water	32	9.3	10000		HORZ	3
			7,3	10000	20,000,000	HORZ	9.3
	1						
	 						
		1	1				

- 1. Enter the appropriate Source Identification Number for each storage tank located at the concrete batch plant. Storage tanks should be designated T-1, T-2, T-3, etc.
- 2. Enter storage tank content (#2 fuel oil, asphaltic cement, water, etc.)
- 3. Enter storage tank length in feet,
- 4. Enter storage tank diameter in feet.
- 5. Enter storage tank volume in gallons. Storage tank volume may be calculated using the following mathematical relationship: (length of tank) X (area conversion) X (tank diameter)2 X (liquid volume conversion) or, $(L_{tank} \text{ ft}) X (3.14/4) X (d^2_{tank} \text{ ft}^2) X (7.48 \text{ gallons/ft}^3)$
- 6. Enter storage tank throughput in gallons per year.
- 7. Enter storage tank orientation using the following codes: VERT Vertical Tank HORZ Horizontal Tank
- 8. Enter storage tank average liquid height in feet.
- 9. Storage tank emissions may be calculated using TANKS emission calculation program.

CBP EMISSION SUMMARY SHEET

Source	P	PM ₁₀		
	PTE (lb/hr)	PTE (ton/yr)	PTE (lb/hr)	PTE (ton/yr)
Total Aggregate Transfer Emissions ¹	2.5416	3.1713	1.2156	1.5167
Total Sand Transfer Emissions ¹	2.0079	2,5034	0.9603	
Cement Unloading to Elevated Storage Silo (Pneumatic) ²	0.2592	0.3240	1.1656	1.1973
Pneumatic Cement Additive Unloading to Silo ²	0,0648	0.0810	0.0414	0.2070
Weigh Hopper Loading ³	0.3240	0.4050	0.0414	0.0518
Mixer Loading (Central) ³	N/A	N/A		0.2588
Truck Mix Loading ³	0.3240	0.4050	N/A	N/A
Paved Haulroads ⁴			0.2070	0.2588
Unpaved Haulroads ⁴	N/A	N/A	N/A	N/A
Wind Erosion from Storage Piles ⁵	1.48	3.03	0.66	1.36
Wind Elosion from Storage Piles	0.01	0.06	0.01	0.03
Total	7.01	5.88	7.56	4.88

- 1. Enter the potential to emit of PM and PM10 associated with the transfer of sand and aggregate from stockpiles to elevated bins. Use appropriate emission factors and/or equations from the CBP Emission Factor Sheet. Emission calculations may also be determined using spreadsheet G50ECALC.
- 2. Enter the potential to emit of PM and PM10 associated with the pneumatic transfer of cement and cement additive to storage structures or silos. Use appropriate emission factors and/or equations from the CBP Emission Factor Sheet. Emission calculations may also be determined using spreadsheet G50ECALC.
- 3. Enter the potential to emit of PM and PM10 associated with loading of weigh hopper(s), central mixer and trucks. Use appropriate emission factors and/or equations from the CBP Emission Factor Sheet. Emission calculations may also be determined using spreadsheet G50ECALC.
- 4. Enter the potential to emit of PM and PM10 associated with vehicle activity on paved or unpaved haulroad(s). Use appropriate emission factors and/or equations from the CBP Emission Factor Sheet. Emission calculations may also be determined using spreadsheet G50ECALC.
- 5. Enter the potential to emit of PM and PM10 associated with wind erosion from sand and aggregate stockpiles. Use appropriate emission factors and/or equations from the CBP Emission Factor Sheet. Emission calculations may also be determined using spreadsheet G50ECALC.
- 6. Attach all potential emission calculations/spreadsheet output to this CBP Emission Summary Sheet.

C&W Manufacturing and Sales, Co.

P.O. Box 908 Crowley, TX 76036

6933 Shelmor Rd Alvarado, TX 76009

Phone: 817.783.5000 • Fax: 817.783.2353

Email: info@cwmfg.com • Website: www.cwmfg.com



Item # CP-7500, Cartridge Pulse Central Dust Collector

C&W Manufacturing offers this high-efficiency line of collectors with the latest technology in cartridges. This series also boasts high performance; increased CFM coupled with an advanced cleaning system creating the most efficient cleaning of filter media on the market today.

The CP Series was engineered by dust control experts with careful attention to user friendliness, efficiency and ease of maintenance. Save time during installation, we offer snap together ducting packages

Specifications

Blower Performance

Total Filtration Area

Blower Power

Air to Cloth Ratio

No. of Cartridges

Cartridge Diameter

Cartridge Length

Type of Media

Normal Air Capacity

Static Pressure Drop

Minimum Design Efficiency (At

Standard Test Condition)

Cleaning Mechanism

7,500 cfm

1654 ft²

15 hp

4.53 acfm/ft²

16

8 in

78 in

Spun Bound Polyester

7,500 cfm

8 inWc

99.99 %

Pulse Jet with Timer

Easy to Maintain

Efficiency

Long-Lasting, Durable

Performance

Reliable, Easy to Operate Safety, OSHA-Compliant

10 Gauge, Corrugated Steel Construction

99.99% Filtration Efficiency Electrical Control Panel

Ladders, Platforms, and Handrails Laser Aligned Cleaning System

Magnehelic Gauge

Solid State Adjustable Timers w/ LED Display

Spun Bound Polyester

Tool-less Exchange of Filter Media Top Entry for Clean Side Filter Exchange

Customized Layouts

Benefits

Features

Additional Services

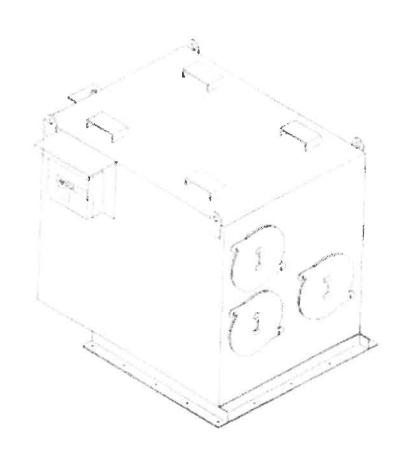
Professional Consultation Start-up, Maintenance & Training Turn-Key & Supervised Installations Custom or Standard Duct Packages

Options

Custom Shrouds and Snorkels Manual or Automatic Recycle Systems Silo Anti-Overfill System Spare Parts Kit



TECHNICAL, INSTALLATION, OPERATION, AND MAINTENANCE MANUAL



STEPHENS MFG. CO THE WEST 4TH STREET P.O. BOX 488 TOMPKINSVILLE, KY 42167 800-626-0266

REF: CARTRIDGE FILTER

PART NUMBER: 1004435

DIMENSIONS: 13.865 x 36.00 150 SQ. FOOT OF CLOTH

SPECIFICATIONS

STYLE: ECO23W PLEATED MEDIA

FIBER: 100% POLYESTER

MEDIA PERMEABILITY: 99.995% AT 1 MICRON AND ABOVE

AIR PERMEABILITY: 28 CEME TO DELTAP

THERMAL STABILITY: 2% MAXIMUM AT 250 DEGREE F MOISTURE TOLERANT: CAN BE WASHED AND REUSED

MAX. OPERATING TEMP,: 200-DLG. FIREGRER TEMP RATING CONSTR.

AVAILABLE UP TO 218 t

CHEMICAL RESISTANCE

ACIDS: FAIR
ALKALIS: GOOD
ONIDIZING AGENTS: GOOD
ORGANIC SOLVENTS: GOOD
HYDROLASIS: FAIR
ABRASION: GOOD

FARRIC CHARACTERISTICS

USING 3 GRAINS FER CLBIC FOOT LOADING AT A RATION OF 851 FOR 24 HOURS CONSTANT, THE MATERIAL AND FILTER MEDIA IS WEIGHED BEFORE AND AFTER THE TEST AND THE RESULTS ARE AS FOLLOWS

99 5 M 2 TO 20 MR RONRANGE

90 095 AT 1 MICRON AND ABOVE

STEPHENS S.O.S. CARTRIDGE DUST COLLECTORS FOR "SILOS"

GENERAL INFORMATION AND NORMAL OPERATION

THE STEPHENS OZONE SUPER FLOW PULSE-JET CARTRIDGE DUST COLLECTOR.

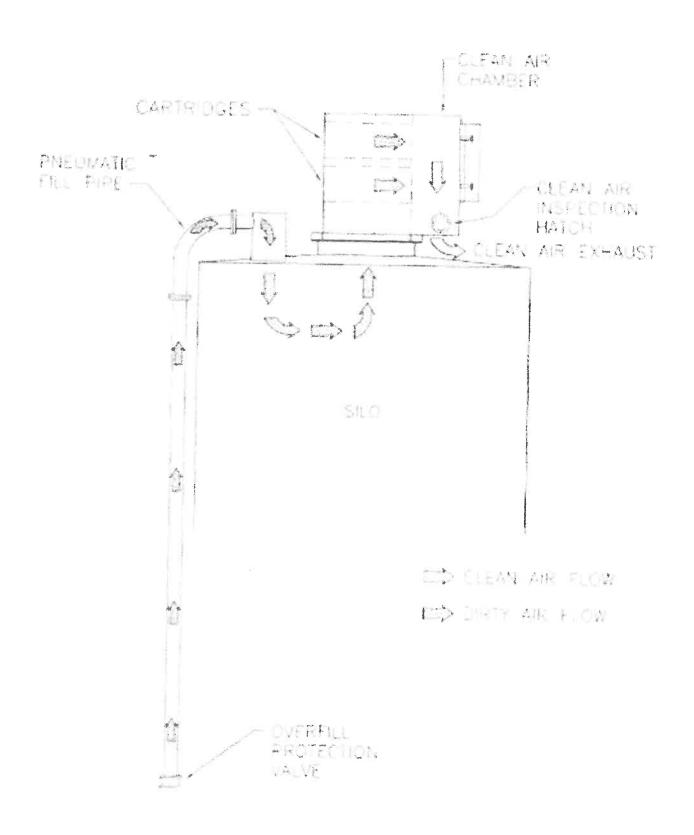
THE STEPHENS CARTRIDGE FILTER CONSISTS OF PLEATED MEDIA IN A CYLINDRICAL CONFIGURATION. THIS DESIGN ALLOWS FOR INSTALLATION AND CHANGE OUT WITH A MINIMUM EFFORT. EACH STEPHENS FILTER IS SUPPLIED WITH IT SOWN GASKET TO INSURE A POSITIVE, AIRTIGHT SEAL EACH TIME THE BILTER IS CHANGED.

THE FILTERS ARE INSTALLED HORIZON FALLY, AND ARE CLEANED AUTOMATICALLY IN SEQUENCE EACH TIME THE CLEANING CYCLE START BUTTON IS PUSHED, SO ONLY A PORTION OF THE FILTERS ARE OFF LINE AT ANY GIVEN TIME

DURING NORMAL OPERATION DIRTY AIR ENTERS THE STEPHENS DUST COLLECTOR THE FOURTHE FREET IN THE BOTTOM OF THE COLLECTOR AND PASSES THROUGHTHE HILTER ELEMENTS DUST IS COLLECTED ON THE OUTSIDE SURFACES OF THE ELEMENTS AND CLEAN AIR FLOWS THROUGH THE CENTER OF THE ELEMENTS IN TO THE CLEAN AIR PLENDING, IN TRUE DOWN. FLOW FASHION WHERE IT EXILS THROUGHTHE CLEAN AIR OF THE STEEL DOWN.

THE CLEANING CYCLE START BUTTON SHOULD BE PUSHED BEFORE BLOWING MATERIAL INTO THE SILO A SOLID STATE TIMER AND SEQUENCE CONTROL BOARD AUTOMATIC ALLY SELFCTS THE CASTRIDGE TO BE CLEANED ACTIVATING SMALL PILOT VALVES WHICH OPEN THE HIGH PRESSURE DEAPHR AGM, VALVES HIGH PRESSURE ARE PULSES ARE DERECTED INTO THE CENTER OF THE SELECTED CARTRIDGE FOR 15 SEC. 150 MILLISECONDS' BLOWING COLLECTED DUST OFF THE FILTER FLEMENTS AND BACK DOWN INTO THE SHO ACTER 25 SECURES THE SECUENCE CONTROL BOARD WILL SELECT ANOTHER CARTRIDGE TO CLEAN AFTER ALL CARTRIDGES ARE CLEANED THE PROCESS WILL START OVER CLEANING THE TEST CARTRIDGE AGAIN. THIS CLEANING PROCESS WILL CONTINUE FOR THE AMOUNT OF TIME SECONDS.

CAUTION: READ STARF I PAND MAINTENANCE CHECK LIST BEFORE STARFING YOUR NEW STEPHENS S.O.S. SILO DUST COLLECTOR:::



File

G50-B Emission Calculation Spreadsheets

For purposes of the General Permit for concrete batch plants, the following emission calculation methods will provide an adequate estimate of facility emissions from point sources and fugitive emission sources. However, where source (facility) specific tests are available, such information is preferable. Other emission factors may be acceptable provided documentation as to accuracy and appropriateness are provided by the applicant.

Completely fill out the following pages with all requested facility specific information.

Applicant Name Patriot Ready Mixed Concrete, LLC

Facility Name Independence

Please print out all pages of the completed spreadsheet and submit with Registration Application.

General Permit G50-B Emission Calculation Spreadsheet G50ECALC for Concrete Batch Plants BATCH DROP/CONTINUOUS DROP OPERATIONS

TRANSFER POINT AGGREGATE TRANSFER	TRANSFER RAT TPH TPY EMISSIONS		TYPE OF CONTROL	CONTROL EFFICIENCY	PM lb/hour	PM-10 lb/hour	PM TPY	PM-10 TPY
e= (0.0069 lb/ton (PM emiss	ion facto	r)	e=	0.0033	lb/ton (PM-10	emission fa	ctor)
Dump truck to stockpile	139	346875	UL-WS	85	0.1439	0.0688	0.1795	0.0050
loader to stockpile	0	0	none	0	0.0000	0.0000		0.0859
loader to feed hopper	139	346875	TC-PE	50	0.4796	0.0000	0.0000	0.0000
hopper to conveyor	139	346875	TC-PE	50	0.4796	0.2294	0.5984	0.2862
conveyor to bin	139	346875	TC-PE	50	0.4796		0.5984	0.2862
bin to scale hopper	139	346875	TC-PE	50	0.4796	0.2294 0.2294	0.5984	0.2862
conveyor to mixer truck	139	346875	TC-PE	50	0.4796	0.2294	0.5984 0.5984	0.2862 0.2862
SAND TRANSFER EMISSIO e= 0	NS .0021 lb/ton (PM emissio	on factor))	e=	2.5416 0.0010	1.2156 lb/ton (PM-10	3.1713 emission fac	1.5167 ttor)
Dump truck to stockpile	97	241875	TC-PE	50	0.3347	0.1601	0.4470	0.4005
loader to stockpile	0	0	none	0	0.0000	0.0000	0.4172	0.1995
loader to feed hopper	97	241875	TC-PE	50	0.3347	0.1601	0.0000	0.0000
hopper to conveyor	97	241875	TC-PE	50	0.3347	0.1601	0.4172	0.1995
conveyor to bin	97	241875	TC-PE	50	0.3347	0.1601	0.4172 0.4172	0.1995
bin to scale hopper	97	241875	TC-PE	50	0.3347	0.1601	0.4172	0.1995
conveyor to mixer truck	97	241875	TC-PE	50	0.3347	0.1601	0.4172	0.1995 0.1995
TOTAL SAND	FRANSFER EMISSIONS	3		·	2.0079	0.9603	2.5034	1.1973

BATCH DROP/CONTINU	JOUS DROP OPERATIONS	
TRANSFER POINT	TRANSFER RATE TYPE OF CONT TPH TPY CONTROL EFFIC	TROL PM PM-10 PM PM-10 CIENCY lb/hour lb/hour TPY TPY
CEMENT UNLUADING	O ELEVATED STORAGE SILO (PNEUMATIC)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
e=	0.7200 lb/ton (PM emission factor) e=	0.4600 lb/ton (PM-10 emission factor)
truck to cement sila	36 90000 UL-BH1	99 0.2592 0.1656 0.3240 0.2070
CEMENT SUPPLEMENT	UNLOADING TO ELEVATED STORAGE SILO (PNEUMA	
e=	3.1400 lb/ton (PM emission factor) e=	1.1000 lb/ton (PM-10 emission factor)
truck to cement silo	9 22500 UL-BH2 5	99 0.0648 0.0414 0.0810 0.0518
WEIGH HOPPER LOADIN	lG	
e≃	0.0051 lb/ton (PM emission factor) e=	0.0024 lb/ton (PM-10 emission factor)
silo to cement weigh bin	45 112500 UL-BH3 9	99 0.3240 0.2070 0.4050 0.2588
MIXER LOADING (CENTR	RAL MIX)	
6=	0.2200 lb/ton (PM emission factor) e=	0.0780 lb/ton (PM-10 emission factor)
cement weigh bin to truck	0 0 n/a 0	0.0000 0.0000 0.0000 0.0000
TRUCK LOADING (TRUC	K MIX)	
9 =	0.6100 lb/ton (PM emission factor) e=	0.1500 lb/ton (PM-10 emission factor)
cement weigh bin to truck	45 112500 UL-BH4 99	9 . 0.3240 0.2070 0.4050 0.2588
TOTAL CEM	ENT TRANSFER EMISSIONS	0.9720 0.6210 1.2150 0.7763
TOTAL TRANSFER EMISS	SIONS	5.5215 2.7969 6.8897 3.4902

UNPAVED HAULROADS - Aggregate Truck

0.0000 lb/hour

0.0000 TPY

EMISSIONS

EMISSIONS

Sand & gravel

PM EMISSIONS		PM-10 EMISSIO	ONG.
k	0.8 particle size multiplier (assumed)	k	0.36 particle size multiplier (assumed
s s	10 silt in road surface (%)	s	10 silt in road surface (%)
w	5 mean vehicle speed (mph) 40 mean vehicle weight (tons)	S	5 mean vehicle speed (mph)
w	14 mean number of wheels	W	40 mean vehicle weight (tons)
р	150 days of precipitation (assumed)	p [14 mean number of wheels 150 days of precipitation (assumed)
e TRAVEL	4.4284 LB/VMT	e	1.9928 LB/VMT
TRAVEL	0.2300 VMT/HOUR 575.0000 VMT/YR	TRAVEL	0.2300 VMT/HOUR
CONTROLS	70 control efficiency (%)	TRAVEL CONTROLS	575.0000 VMT/YR 70 control efficiency (%)
MISSIONS	0.3056 lb/hour	EMISSIONS	0.1375 lb/hour
MISSIONS	0.3819 TPY	EMISSIONS	0.1719 TPY
AVED HAULROAD	S - Aggregate Trucks Sand &	gravel	
M EMISSIONS		PM-10 EMISSION	No
	0.082 base emission factor for particle	k	
,	70 road surface silt load. (g/m^2)	S	0.016 particle size multiplier (assumed) 70 silt in road surface (%)
	mean vehicle weight (tons)	w	mean vehicle weight (tons)
RAVEL	0.0000 LB/VMT VMT/HOUR	e	0.0000 LB/VMT
RAVEL	VMT/YR	TRAVEL TRAVEL	0.0000 VMT/HOUR
ONTROLS	0 control efficiency (%)	CONTROLS	0.0000 VMT/YR 0 control efficiency (%)

EMISSIONS

EMISSIONS

0.0000 lb/hour

0.0000 TPY

UNPAVED HAULROADS - Cement Tanker

CONTROLS 70 control efficiency (%) EMISSIONS 0.3465 lb/hour EMISSIONS 0.4331 TPY	TRAVEL CONTROLS EMISSIONS EMISSIONS	575.0000 VMT/YR 70 control efficiency (%) 0.1559 lb/hour 0.1949 TPY
S 10 silt in road surface (%) S 5 mean vehicle speed (mph) W 40 mean vehicle weight (tons) W 18 mean number of wheels D 150 days of precipitation (assumed) D 5.0213 LB/VMT TRAVEL 0.2300 VMT/HOUR FRAVEL 575.0000 VMT/YR	k s S W w p e TRAVEL	0.36 particle size multiplier (assumed) 10 silt in road surface (%) 5 mean vehicle speed (mph) 40 mean vehicle weight (tons) 18 mean number of wheels 150 days of precipitation (assumed) 2.2596 LB/VMT 0.2300 VMT/HOUR

PM EMISSIONS k		PM-10 EMISSION	NS
sL	0.082 base emission factor for particle	k	0.016 particle size multiplier (assumed)
w F	70 road surface silt load. (g/m^2)	S	70 silt in road surface (%)
e L	mean vehicle weight (tons)	W	mean vehicle weight (tons)
TRAVEL	0.0000 LB/MT	е	0.0000 LB/VMT
TRAVEL	VMT/HOUR	TRAVEL	0.0000 VMT/HOUR
CONTROLS	VMT/YR	TRAVEL	0.0000 VMT/YR
	0 control efficiency (%)	CONTROLS	0 control efficiency (%)
EMISSIONS	0.0000 lb/hour		
EMISSIONS	0.0000 TPY	EMISSIONS	0.0000 lb/hour
	0.0000 171	EMISSIONS	0.0000 TPY

UNPAVED HAULROADS - Concrete Mixer

EMISSIONS

EMISSIONS

0.0000 lb/hour

0.0000 TPY

PM EMISSIONS		PM-10 EMISSI	ONE
k	0.8 particle size multiplier (assumed)	k	
S	10 silt in road surface (%)		0.36 particle size multiplier (assumed)
s	5 mean vehicle speed (mph)	s	10 silt in road surface (%)
w		S	5 mean vehicle speed (mph)
w	32 mean vehicle weight (tons)	W	32 mean vehicle weight (tons)
<u> </u>	10 mean number of wheels	w	10 mean number of wheels
p	150 days of precipitation (assumed)	þ	150 days of precipitation (assumed)
e TDAVE	3.2014 LB/VMT	е	1.4406 LB/VMT
TRAVEL	0.7500 VMT/HOUR	TRAVEL	0.7500 VMT/HOUR
TRAVEL	1,875.0000 VMT/YR	TRAVEL	1,875.0000 VMT/YR
CONTROLS	70 control efficiency (%)	CONTROLS	70 control efficiency (%)
EMISSIONS	0.7203 lb/hour	EMISSIONS	
EMISSIONS	0.9004 TPY	EMISSIONS	0.3241 lb/hour
		EM19910M9	0.4052 TPY
PAVED HAULROA	ADS - Concrete Mixer		
PM EMISSIONS		PM-10 EMISSIC	ONIO.
k	0.082 base emission factor for particle	k	
sL	70 road surface silt load. (g/m^2)		0.016 particle size multiplier (assumed)
w	mean vehicle weight (tons)	S	70 silt in road surface (%)
е —	0.0000 LB/VMT	w	mean vehicle weight (tons)
TRAVEL		е	0.0000 LB/VMT
TRAVEL	VMT/HOUR	TRAVEL	0.0000 VMT/HOUR
	VMT/YR	TRAVEL	0.0000 VMT/YR
CONTROLS	0 control efficiency (%)	CONTROLS	0 control efficiency (%)

EMISSIONS

EMISSIONS

0.0000 lb/hour

0.0000 TPY

UNPAVED HAULROADS- Endloader

PM EMISSION		PM-10 EMISSI	IONS
k	0.8 particle size multiplier (assumed)	k	0.36 particle size multiplier (assumed)
s S	10 silt in road surface (%) 5 mean vehicle speed (mph)	s S	10 silt in road surface (%)
W	7 mean vehicle weight (tons)	w	5 mean vehicle speed (mph) 7 mean vehicle weight (tons)
р	4 mean number of wheels 150 days of precipitation (assumed)	w þ	4 mean number of wheels 150 days of precipitation (assumed)
e TRAVEL	0.6988 LB/VMT 0.5000 VMT/HOUR	e TRAVEL	0.3144 LB/VMT
TRAVEL CONTROLS	12,500.0000 VMT/YR	TRAVEL	0.5000 VMT/HOUR 12,500.0000 VMT/YR
CONTROLS	70 control efficiency (%)	CONTROLS	70 control efficiency (%)
EMISSIONS EMISSIONS	0.1048 lb/hour 1.3102 TPY	EMISSIONS EMISSIONS	0.0472 lb/hour 0.5896 TPY

STORAGE PILE- Sand

PM EMISSIONS s p f A N CONTROLS EMISSIONS EMISSIONS	30 silt content (%) 150 days of precipitation (assumed) 15 time the wind exceeds 12 mph (%) 0.0200 surface area (acres) 1 number of storage piles 50 %	PM-10 EMISSION s p f A N CONTROLS EMISSIONS	30 sitt content (%) 150 days of precipitation (assumed) 15 time the wind exceeds 12 mph (%) 0.0200 surface area (acres) 1 number of storage piles 50 %
EMISSIONS	0.0568 TPY	EMISSIONS EMISSIONS	0.0061 lb/hour 0.0267 TPY

STORAGE PILE- Aggregate

PM EMISSIONS s p f A N CONTROLS	10 silt content (%) 150 days of precipitation (assumed) 15 time the wind exceeds 12 mph (%) 0.0200 surface area (acres) 1 number of storage piles 85 %	PM-10 EMISSI s p f A N CONTROLS	10 silt content (%) 150 days of precipitation (assumed) 15 time the wind exceeds 12 mph (%) 0.0200 surface area (acres) 1 number of storage piles
EMISSIONS	0.0013 !b/hour	EMISSIONS	0.0006 lb/hour
EMISSIONS	0.0057 TPY	EMISSIONS	0.0027 TPY

EMISSIONS SOURCE SUMMARY

	PM EMISSIONS		PM-10 EMISSIONS	
Point Source Emissions Equipment Emissions Transfer Point Emissions Point Source Emissions Total	lb/hour 0.00 5.52 5.52	TPY 0.00 2.80 2.80	lb/hour 0.00 6.89 6.89	TPY 0.00 3.49 3.49
Fugitive Emissions Unpaved Haulroad Emissions Paved Haulroad Emissions Stockpile Emissions Fugitive Emissions Total	lb/hour 1.48 0.00 0.01 1.49	3.03 0.00 0.06 3.09	lb/hour 0.66 0.00 0.01 0.67	TPY 1.36 0.00 0.03 1.39
FACILITY EMISSIONS TOTAL	7.01	5.88	7.56	4.88